

**JCQ Series**

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# **Counting Scale**

**User Manual**

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## 1. Introduction

Thank you for choosing a JCQ counting scale from Jadever. This scale has the excellent performance and splendid properties under severe quality management. It is recommended to read this manual in full before using it for good function application.

## 2. Precautions

- ⊙ Place the scale on a flat and stable surface. See 3-3 Leveling the Scale for details.
- ⊙ Verify that the input voltage and the plug type matches the local AC power supply. See 4-3 Power Supply.
- ⊙ Warm up the scale for 15 minutes before using it for the first time.
- ⊙ Keep the scale away from EMI noise, strong wind and vibration, which might cause incorrect reading.
- ⊙ Avoid sudden temperature changes (suitable operating temperature is between 0°C~ 40 °C.)
- ⊙ Disconnect the power supply when cleaning the scale.
- ⊙ Do not immerse the scale in water or other liquids.
- ⊙ Over 2 years without using the scale for the first time, please charging fully before utility.
- ⊙ Please cut off the charging power after the battery is fully charged.
- ⊙ If the charge indicator indicates red light (24 hours or more) when the battery is charged, please check the scale or replace a new battery.
- ⊙ Service should be performed by authorized personnel only.

## 3. Before Using the Product

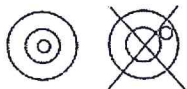
### 3-1 Unpacking and Checking

Open the package and check the instrument for transport damage. Immediately inform your dealer if you have complaints or if parts are missing. The package should contain:

- Scale body
- Weighing pans
- User manual
- Adaptor

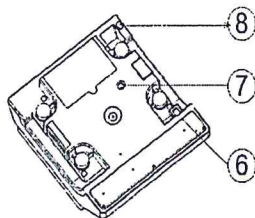
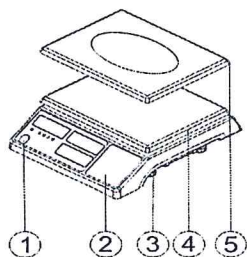
### 3-2 Leveling the Scale

To compensate for small irregularities or inclinations at the location, the scale can be leveled. The scale is equipped with a level indicator at the front panel .Adjust the leveling feet until the air bubble in the indicator is centered as shown.



Note: The scale should be leveled each time once its location is changed.

## 4. Product Introduction



- ① Leveler
- ② Board and keypad
- ③ Adjusting feet
- ④ Plastic weighing pan
- ⑤ Stainless steel weighing pan
- ⑥ On/Off switch
- ⑦ Transport protection screws
- ⑧ Power socket

## 4-1 Specifications & General Features

### Specifications

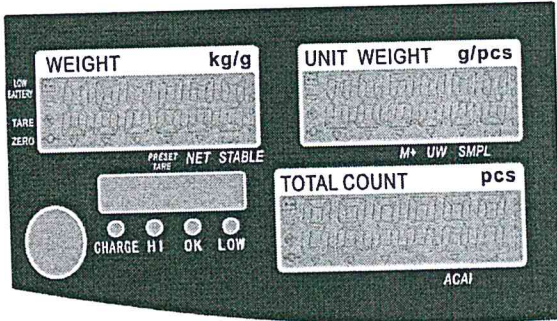
Model	JCQ-3K	JCQ-6K	JCQ-15K	JCQ-30K
Capacity(kg)	3	6	15	30
Weighing units	Kg/g/lb			
Display	Blacklight with LED displays (6/5/6 Digits)			
Pan size	294 x 228 x 13.5mm			
Scale dimensions	330 x 289 x 104mm			
Power supply	DC9v/400mA or rechargeable battery (6V/4A)			




### General Features

- Resolution up to 1/30000
- Tare, Preset Tare, auto zero tracking
- Single point and linear calibration available
- HI/OK/LO quantity checking function
- Weighing platter easy to disassemble
- Dust proof PVC cover
- Low battery and charging status indication
- Accumulation of weight and quantity
- RS-232 interface and Relay interface optional for external devices
- Auto shut off for power saving

### 4-2 Front Panel

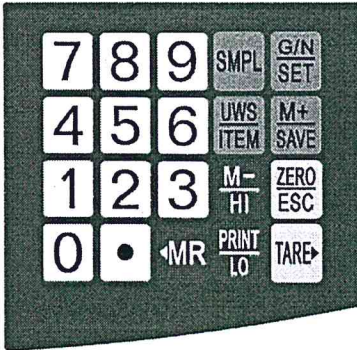
## 4-2-1 Display



- 1)  Low battery indication
- 2)  Tare or Preset Tare indication
- 3)  Center of Zero indication. The zeroing range is  $\pm 2\%$  of weighing capacity.
- 4) Charge Lamp
- 5) **HI Lamp (ON)** Indicating parameter item **UW** is selected when setting buzz sounds. (See 5. Function Setting, setting buzz sounds)  
**OK Lamp (ON)** -- Indicating parameter item **IN** or **ND** is selected when setting buzz sounds.  
**LOW Lamp (ON)**—Indicating parameter item **LD** is selected when setting buzz sounds.
- 6) “PRESET TARE” Symbol “▼” points at “PRESET TARE” when Tare value entered via numeric keys.
- 7) “NET” Net weight--Gross weight minus Tare. Symbol “▼” points at “NET” when TARE or PRESET TARE action is done.
- 8) “STABLE” Stable indication, Symbol “▲▲” appears at the top of “STABLE” when scale is in stable condition.
- 9) “ACAI” Symbol “▼” points at “ACAI” when the average unit weight is calculated or recalculated.
- 10) “M+” Symbol “▼” points at “M+” when scale is in accumulation mode.
- 11) “UW” Under entering a known unit weight mode, Symbol “▼” points at “UW” when entered unit weight is lower than 4/5 of scale division. Unit weight is too small for ensuring accurate quantity calculations.
- 12) “SMPL” Under the sample counting mode, Symbol “▼” points at “SMPL” when calculated unit weight is lower than 4/5 of scale division or the quantity of sample is less than 10 pieces.
- 13) “UNIT WEIGHT” Unit Weight Window --Displays the average unit weight value, or number of weighing.

- 14) "TOTAL COUNT" Total count window –Displays the calculated number of pieces on the weighing pan, or accumulated piece count value.
- 15) "WEIGHT" Weight Window–Displays weight of object on weighing pan, or accumulated weight value.

#### 4-2-2 Keyboards



- 1) **0 ~9** numeric keys Enter specific values for tare; unit weight and other data entries.
- 2) **•** key Decimal point
- 3) **SMPL** key Short press to enter the sampling mode. Long press to close ACAI after sampling. And shift Units when setting capacity.
- 4) **G N/SET** key Shift the displays of Gross weight and Net weight after tare. Long press to enter parameters setting. And turn on or turn off check weighing when entering HI, LO, OK setting.
- 5) **UWS/ITEM** key Find out the unit weight in memory or reset the unit weight again. Input the indicated unit weight via numeric keys and press it to start counting function.
- 6) **M+/SAVE** key Accumulate the records of counting or weighing. Save the changing parameter. Set the capacity and resolution.
- 7) **M-/HI** key Clear the input figures. Set the value of HI. Enable the blinking figure plus one when inputting the figures.
- 8) **ZERO/ESC** key Zero the display (within 2% of max.capacity) or cancel Tare action. Exit from the setting without saving.
- 9) **◀/MR** key Recall and display the total Accumulation data (weight, total count and number of weights ) and the first 10 records in details. Circle the choices in the setting. Make the blinking spot shift leftwards when inputting the figures.

10) **PRINT/LO** key Press the key to print when printing manually is selected. Set the LO value. Enable the blinking figure decrease one when inputting the figures.

11) **TARE/▶** key Input the weight of the object on the weighing pan as a Tare value ; Inputs the indicated value entered via the numeric keys as a pre-set Tare value ; cancel tare action. Display rightwards the first 10 records in detail. Make the blinking spot shift rightwards when inputting the figures.

## 4-3 Power Supply

### Power supply

Please verify the local power source before plugging into the power outlet, and use the individual power socket and original adaptor.


### Alternative power supply

- 1) (9V/400mA) adaptor
- 2) (6V/4A) internal rechargeable battery

### Power Consumption

About 300mW (without backlight)  
About 380mW (with backlight)

### Low battery warning


When  appears in the upper left corner of the weight window, the battery power requires recharging. The charge lamp turns green from red when the recharging is completed (which takes about 8 hours). Disconnect the scale from power supply when it is fully charged. A full charged battery can operate the scale for approximately 65 hrs with backlight, 80hrs without backlight.

Note: Battery is to be replaced only by an authorized service dealer .Risk of explosion can occur if replaced with the wrong type or connected improperly

## 5. Setting Mode

### 5-1 Function Setting

- 1) Press **G N/SET** key while powering on  
Or long press **G N/SET** key in the weighing mode to enter parameter setting.



- 2) Press key **◀/MR** or **TARE/▶** to circle the parameters

- 3) Press key **G N/SET** to enter the selected parameter.
  - 4) Press key **◀/MR** or **TARE/▶** to circle the items of present parameter.
  - 5) Press key **M+/SAVE** to save after changing and return to parameters choosing. While Press key **ZERO/ESC** to return without saving.
  - 6) Press key **ZERO/ESC** again to return to weighing mode.
- Note:** In the parameter setting mode, press the numeric key to choose the parameter directly
- 7) Long press key **SMPL** to cancel ACAI, start ACAI again when return to sampling mode, but do not change the original way of sampling and counting.

## 5-2 Parameters

1) **SET00**  $\overline{CHCK}$  internal code checking

2) **SET01**  $\overline{BLMT}$  backlight modes shifting

Options are On, OFF, and AUTO

$\overline{ON}$  = Backlight

$\overline{OFF}$  = No backlight

$\overline{AUTO}$  = Auto-on once get a stable weigh data or any key is pressed. But auto off after N seconds (N=2s, 5s, 10s, 20s, ever) with no action

(ever= the backlight lasts forever with more than 9d placed on the pan) when it is stable.

3) **SET02**  $\overline{UNIT}$  current using units setting (for weighing window and unit weight window)

options are : kg kg, kg g, g g, lb lb

$\overline{kg}$

$\overline{g}$

$\overline{lb}$

E.g. When Kg, G is selected, means weighing window current using unit is kg and unit weight window current using unit is g

**How to set current using units?**

When parameter SET02 UNIT is selected, press **SMPL** to choose the desired unit,

press **M+/SAVE** to save the setting , then press **◀/MR** or **TARE/▶** to advance to next parameter setting.

4) **SET03**  $\overline{ZER}$  zero range setting: d0, d1, d2, d3, d4, d5.

d0 (one division) , d1 (2 divisions), d2 (3 divisions), d3 (4 divisions), d4 (5 divisions) and d5 (6 divisions)

5) **SET04**  $\overline{LHI}$  whether to save the upper & lower limit of quantity checking: on, off

OFF = previously set quantity checking values are not retained when the unit is turned on.



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ON = previously set quantity checking values are retained when the unit is turned on.

- 6) **SET05** **[HFL]** stable weight checking setting: on, off

On: it starts checking weight when the weight and quantity are within the checking range and the stable symbol appears.

Off: it starts checking weight once the weight and quantity are within the checking range

- 7) **SET06** **[EEP]** beep setting: Hi, ok, Lo, out, no.beep

Hi: There will be a warning sound when the material quantity is more than the upper limit, and the weight of the material is more than 20 divisions

Ok: There will be a warning sound when the quantity of the articles is between the upper and lower limit (including the upper and lower limits).

Lo: There will be a warning sound when the material quantity is less than the lower limit, and the weight of the material is more than 20 divisions.

Out: There will be a warning sound when the material quantity exceeds the upper or lower limits, and the weight of the material is more than 20 divisions

no.beep: No sound alarm.

- 8) **SET07** **[PEr]** external equipment setting: PC, JMS, Godex, BIRCH, ZEBRA, GP,

DMP, CK, ET, CX, U.KEY.

PC: computer output

JMS: connect with weighing system

GODEX: Godex printer (paper size 5cm\*3cm)

BIRCH: Birch printer (paper size 5cm\*3cm)

ZEBRA: Zebra printer (paper size 5cm\*3cm)

GP: Adhesive sticker label printer (paper size 5cmx3cm)

DMP: Dot matrix printer (SH-24)

CK: thermal printer (Chinese available)

ET: Large LED display

CX: CX large screen display (version 0.02)

EXCEL: Work with the function of "Use Serial Keys" in Windows in outputting the data t

Excel. Reference user manual: <http://www.jadever.com.cn/Download.aspx>

U.KEY: U.KEY connector works with PC to send the weighing data to computer (WinXP/Win7) in form of Excel and so on.

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Note: Special setting is needed by distributor if you want to print in Chinese.

9) **SET08** *bAUD* baud rate setting: 9600, 4800, 2400

10) **SET09** *Prt.n* printing modes setting: **key**, **stable**, **contin**

**Contin**: Printing continually

**Stable**: Printing automatically when get a stable weight (more than 20d)

**Key**: Printing by pressing keys

11) **SET10** *Prt.F* printing format setting: prt01~prt03

Use the numeric key to set the format directly.

12) **SET11** *FIL* filtering setting: 1, 2, 3, 4

Set the filtering level in which the stable indication turns on. The higher the setting, the slower stabilization time.

13) **SET12** *T-L* Precondition for zeroing or taring setting: **stable**, **auto**, **always**

**stable**: Taring or zeroing works when get a stable weight only after pressing the key **TARE** or **ZERO**

**always**: Taring or zeroing works no matter if it gets a stable weight or not after pressing the key **TARE** or **ZERO**

**auto**: Press key **TARE** or **ZERO** when unstable, but it works only when get a stable weight.

14) **SET13** *0-off* weight memory parameter: **on**, **off**

**On**: display the last weight when powering on again

**Off**: do not display the last weight when powering on again

15) **SET14** *HiLo* the kinds of checking: **Qty.ck**, **Wt.ck**

**Qty.ck**: start amount checking

**Wt.ck**: start weighing checking

16) **SET15** *rLLL* parameter initialization

press key **G N/SET** then key **M+/SAVE** to start initialization. It is finished when displaying OK.

17) **SET16** **A.AVG**, Average automatically function

**OFF**: turn off the average automatically function.

**ON**: turn on the average automatically function, so that to weight the article according to actual unit weight.

Long press **SAMPLE** to disable this function, the system will turn on this function once get a sample weight again.

## 6. Single and Multi-point Calibration

**Note:** Before calibration, please set the capacity first. The unit used in calibration is the one that has been set before. During the calibration procedure, LONG press **ZERO/ESC** to return to normal weighing mode without saving.

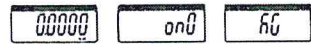
Here we take 3kg/0.2g as an example

1. Press and hold **TARE/▶** while powering on.



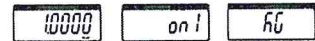
Do not release it till the window displays "CAL"

2. With no load on the weighing pan,  
press **TARE/▶** to start zero point calibration.



3. Wait till the window displays the first calibration value.

**Note:** The first calibration value is default. If the value has been changed, the default value is 1/3 of full load.



If you need to change the value, do as the following: Press key **G N/SET** to enter the value setting. Press key **◀/MR** or **TARE/▶** to move leftwards or rightwards. Press key **M-/HI** or **PRINT/LO** to modify the value (or via numeric keys). Press key **M+/SAVE** to save.

4. Put the corresponding weight on the weighing pan,



and then press **TARE/▶** to complete the first point calibration.

**Note:** After the first point calibration, the window can display the weight value. If no need for the other point calibration, move to Step 6 to finish the calibration procedure.

5. Add another weight 500g to the current weight. The window



will show the total weights value. Press **TARE/▶** to complete.

Repeat this step to complete the calibrations of on3, on4 and on5.

6. Press **ZERO/ESC** to save. After the window displays "PR55",  
It will return to normal weighing mode.

**Note:** the window displays **PR55** automatically when on5 is finished. It will be saved and return to the normal weighing.

## 7. Operation

### 7-1 Weighing

Put item to be weighed on the scale. The Weight window shows 1.00kg, Gross Weight.

## 7-2 Tare & Preset Tare




### 7-2-1 Tare

When weighing a sample that must be held in a container, tare and store the container weight into memory.

- 1) Under the weighing mode, put the container on the scale.

Press the key **TARE** to complete tare action.



The  symbol appears and the window displays as shown on the right

- 2) Put the item into the container. Then the window displays the net weight.



- 3) Clear the pan. The window displays the taring weight

That is the weight of container.



- 4) To cancel tare action, clear the pan and press **TARE/▶** or **ZERO/ESC**.

### 7-2-2 Preset Tare

#### Method 1:



- 1) Press **TARE/▶** for three seconds, it enters to preset tare setting.

Preset-tare value setting: Press key **◀/MR** or **TARE/▶** to shift and key **M-/HI** or **PRINT/LO** to modify the value (or via numeric keys). Press key **M+/SAVE** to save and return to weighing mode.



- 2) Put the items into the container and the weight of container will be tared automatically from the total weight.
- 3) To cancel tare action, clear the pan and press **TARE/▶** or **ZERO/ESC**.

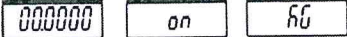
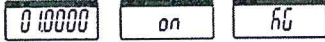
#### Method 2:

- 1) Enter the tare value by pressing the numeric button, the screen will show the tare value, then press **TARE/▶**: 
- 2) Place the items into the container and the weight of container will be tared automatically from the total weight. 
- 3) To cancel tare action, clear the pan and press **TARE/▶** or **ZERO/ESC**.

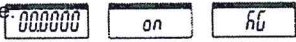
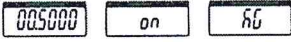
## 7-3 Checking function

### 7-3-1 Upper & Lower Weight Limit Checking

#### Upper weight limit

- 1) Long press key **M-/HI** under the weighing mode.   
The number leftmost is blinking.
- 2) Press key **◀/MR** or **TARE/▶** to shift and key **M-/HI** or **PRINT/LO** to modify the value (or via numeric keys) 
- 3) Press key **G N/SET** to start or close weighing checking
- 4) Press key **M+/SAVE** to confirm and save. Press key **ZERO/ESC** to return to weighing mode without saving.

#### Lower limit weight

- 1) Long press key **PRINT/LO** under the weighing mode   
The number leftmost is blinking.
- 2) Press key **◀/MR** or **TARE/▶** to shift and key **M-/HI** or **PRINT/LO** to modify the value (or via numeric keys) 
- 3) Press key **G N/SET** to start or close weighing checking
- 4) Press key **M+/SAVE** to confirm and save. Press key **ZERO/ESC** to return to weighing mode without saving.

Put the sample on the weighing pan.

HI indication appears, when the item on the weighing pan is greater than the upper limit

OK indication appears, when the item on the weighing pan is between upper and lower limits.

LO indication appears, when the item on the weighing pan is smaller than lower limit.

**Note:** the item on the weighing pan should be more than or equal to 20e.

When changing the Hi-Lo value, the scale will activate the weighing checking function automatically. If the Lo value is higher than Hi value, then the Hi value will become the same value as Lo data.

### 7-3-2 Upper & Lower Quantity Limit Checking

#### Upper Quantity Limit

- 1) Long press key **M-/HI** under the weighing mode.   
The number leftmost is blinking.

2) Press key ◀/MR or TARE/▶ to shift and key M-/HI or PRINT/LO

to modify the value (or via numeric keys)

002000

on

PCS

3) Press key G N/SET to start or close weighing checking

4) Press key M+/SAVE to confirm and save. Press key ZERO/ESC to return to weighing mode without saving.

### Lower Quantity Limit

1) Long press key M-/HI under the weighing mode.

000000

on

PCS

The number leftmost is blinking.

2) Press key ◀/MR or TARE/▶ to shift and key M-/HI or PRINT/LO

to modify the value (or via numeric keys)

000050

on

PCS

3) Press key G N/SET to start or close weighing checking

4) Press key M+/SAVE to confirm and save. Press key ZERO/ESC to return to weighing mode without saving.

Put the sample on the weighing pan.

HI indication appears, when the item on the weighing pan is greater than the upper limit

OK indication appears, when the item on the weighing pan is between upper and lower limits.

LO indication appears, when the item on the weighing pan is smaller than lower limit.

**Note:** the item on the weighing pan should be more than or equal to 20e.

When changing the Hi-Lo value, the scale will activate the weighing checking function automatically. If the Lo value is higher than Hi value, then the Hi value will become the same value as Lo data.

## 7-4 Basic Counting

### 7-4-1 Entering a Known Unit Weight

1) Under the weighing mode, use the numeric keys together with key “. ” to input unit weight value, and then press UWS.

00000

0.5000

0

2) Put the items on the weighing pan , the scale starts counting.




Note: Symbol "▼" points at "UW" when entered unit weight is lower than 4/5 of scale division.

### Unit weight Memory

- 1) When there is one unit weight on the screen, and press **UWS/ITEM** key.
- 2) Then enter a number for each unit weight. Use **◀/MR** or **TARE/▶** key to shift and **M-/HI** or **PRINT/LO** key to modify the value (or via numeric keys)
- 3) Press key **M+/SAVE** to confirm and save. Press key **ZERO/ESC** to return to weighing mode without saving.




Note: the maximum unit weight memory could up to 20pcs (00-19).

### Unit weight Calling-out

- 1) Press **UWS/ITEM** key. The window displays as shown on the right (Press **M-/HI** to clear the value in the unit price screen firstly).   
- 2) Input the number of unit weight. Press key **◀/MR** or **TARE/▶** to shift and key **M-/HI** or **PRINT/LO** to modify the value (or via numeric keys)
- 3) Press key **M+/SAVE** to confirm called-out weight and return to the weighing mode. Press key **ZERO/ESC** to exit and return to weighing mode.

## 7-4-2 Sample Counting and ACAL

### Sample Counting

- 1) Put samples onto on the weighing pan (or into a tared container) and input the quantity with numeric keys, then press key **SMPL**.   

The unit weight is calculated, with Symbol "▼" pointing at "ACAL".

**Note:**

- The larger the sample size, the more accurate unit weight.
- Symbol " ▼ " points at "SMPL" when calculated unit weight is lower than 4/5 of scale division or the quantity of sample is less than 10 pieces.

2) Remove the samples and put the load on, the scale begins to count.

3) Press key **M-/HI** to exit and return to the weighing mode.

### ACAI

Automatic Counting Accuracy Improvement (ACAI) results in a more accurate count by increasing the reference weight without the need to count additional parts. A higher reference weight is important when there is a risk of inconsistent piece weights or if the reference weight is close to the minimum. ACAI uses an initial averaging unit weight to count additional pieces that are placed on the scale. After a few seconds, the scale gives a beep as the new higher reference weight is used to recalculate the averaging unit weight. The process can be repeated as long as the additional weight is less than the previous reference weight. Once this limit is exceeded, ACAI is turned off.

Manual ACAI closing: ACAI acts automatically after sampling when ACAI indication appears. Long press **SMPL** key to turn off ACAI when ACAI indication disappears. ACAI re-acts when sampling again.




## 7-5 Accumulation, Accumulation Display and Accumulation clear

### 7-5-1 Accumulation

1) Enter the indicated unit weight, press key **UWS/ITEM** and put first piece of load on the

weighing pan (or into a tared container). (Refer to 7-4-1 and 7-4-2)



2) Press key **M+/SAVE**, the first accumulation event

is displayed momentarily before Symbol “▼”



pointing at “M+”. The display reverts to normal

weighing mode in a second. Remove the first piece



3) Put the second piece of load on, and then press key **M+/SAVE** to add the second accumulation event into memory. Repeat step 2-3 till accumulation actions are finished.

**Note:** Maximum is 99 pieces. It is able to calculate the second deal when returning to zero after the first one under the condition of more than (or equal to) 20d with stability. Minus weight



and gross weight can't be accumulated. After resetting the sample value or unit weight, the quantity accumulated will be adjusted automatically according to the new setting value.

### 7-5-2 Accumulation display

1) Press key ◀/MR to displays the total accumulation data

25000   .403   500

(weight, quantity and number of weights)

0.5000   .703   100

2) Press key ◀/MR or TARE/▶ to check the total events and the first 10 accumulation events in detail.

3) When connecting PC, printer DMP or CK, press PRINT/LO to output the events

Note: ①  $\bar{\bar{L}}XX$ =total accumulation events;  $\bar{\bar{H}}XX$ =the single accumulation

### 7-5-3 Accumulation clear

To clear the total accumulation data or the first 10 accumulation events, press key ◀/MR or TARE/▶ to shift the events and then press key M-/HI to clear. Symbol “▼” disappears when the total accumulation data is deleted.

## 7-6 Initialization of the Scale to Printer (Optional)

Step 1	Press <b>G N/SET</b> key while powering on or long press <b>G N/SET</b> key in the weighing mode to enter parameter setting. Press key ◀/MR or TARE/▶ to circle the parameters and select <b>SET08</b> $\bar{\bar{P}}Er$ .
Step 2	Press <b>G N/SET</b> to enter the external equipment choosing. Press key ◀/MR or TARE/▶ to select the type of printers. Press <b>G N/SET</b> to start initialization. The window of unit weight displays the type of printer. And the window of total amount displays UNSU or init?.

Step 3	When UNSUP appears, it means the printer can't be initialized. Press key <b>ZERO/ESC</b> to return to the printer choosing. It needs to be initialized when init? appears. Press key <b>M+/SAVE</b> to start initialization or press key <b>ZERO/ESC</b> to return to the printer choosing without initialization. It displays ok when initialization is finished and shows the type of printer after one second. Go further to other parameter setting or press key <b>ZERO/ESC</b> to return to weighing mode.
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### 7-7.The Control from PC to Scale (Optional)

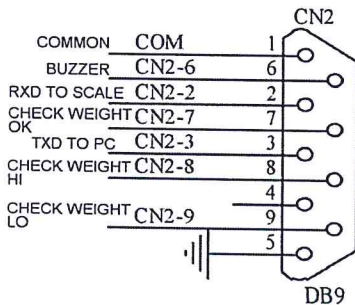
Step 1	Install the RS232 and RELAY. Connect RS232 and choose the external equipment PC.
Step 2	Open the serial port to modify. Input the letters Z, T, C, R and P in the sending window and press key Send again. The scale can conduct the responding function. Z= Zero, T=Tare, R and P=Printer, C=Cancel Tare.

## 8. Serial Interface

If external interface is needed, please select the proper RS 232 + RELAY board firstly, and only when this board is adopted, the functions can be enabled.

**Note:** RTC is unavailable.

### 8-1 RS-232 connector



## 9. Troubleshooting and Error message

Error Message	Problem	Solution
ERR0	Exceed the zero range	The item on the pan should be within 2% of full load.
ERR1	Model setting error. Resolution should be within 300-300000	Adjust or reset the capacity first then adjust resolution
ERR2	Initial zero point exceeds 30% of full load	1.Remove the obstacle article under the pan 2.Replace the load cell or contact the maintenance department.
ERR3	Exceed the A/D resolution range	1. Replace A/D 2..Replace the load cell or contact the maintenance department.
ERR4	EEPROM Chksum failure	Re-weld EEPROM or contact the maintenance department.
ERR5	Overload condition	Remove the overload item
ERR6	Exceeds the display range	-----
ERR7	Accumulated number of weighments exceeds the display range	Delete the exceeding weights
ERR8	Weight limit value is higher than the full load value	Reset the weight limit value.
ERR9	Exceed tare or pre-tare range	$0 < \text{Tare value} \leq \text{full load}$
ERR10	Wrong calibration weights	Place the right test weights and the calibration value should be below full load.

## Appendix 1

Printing device	Printing format	Sample
PC	<b>prt-01</b>	<b>10 pcs</b>
	<b>prt-02</b>	<b>1.000 kg</b>
	<b>prt-03</b>	N.W.: 0.500 kg U.W.: 0.0500 kg/pcs Total: 10 pcs

	<b>prt-04</b>	G.W.:+ 10000 g U.W.: 10.000g/pcs Total: 1000pcs
	<b>prt-05</b>	+ 1.000 kg - 1.000 kg
<b>BIRCH/GODEX/ZEBRA/GP</b>	<b>prt-01</b>	10 pcs
	<b>prt-02</b>	0.500 kg
	<b>prt-03</b>	N.W.: 0.500 kg U.W.: 0.0500 kg/pcs Total: 10pcs
<b>CK/DMP</b>	<b>prt-01</b>	10 pcs
	<b>prt-02</b>	0.500 kg
	<b>prt-03 (English)</b>	N.W.: 0.500 kg U.W.: 0.0500 kg/pcs Total: 10 pcs

	<b>prt-03 (CK Chinese)</b>	<div style="border: 1px solid black; border-radius: 15px; padding: 10px;">           净重: 0.500 kg            单重: 0.0500 kg/pcs            总计: 10 pcs         </div>															
	When the window of unit weight shows { 0 } , the printing format of accumulation display is as follow	<div style="border: 1px solid black; padding: 10px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">(01)</td> <td style="width: 40%;">1.000 kg</td> <td style="width: 50%; text-align: right;">20 pcs</td> </tr> <tr> <td>(02)</td> <td>1.000 kg</td> <td style="text-align: right;">20 pcs</td> </tr> <tr> <td>(03)</td> <td>1.000 kg</td> <td style="text-align: right;">20 pcs</td> </tr> <tr> <td colspan="3" style="border-top: 1px dashed black; height: 5px;"></td> </tr> <tr> <td>(03)</td> <td>3.000 kg</td> <td style="text-align: right;">60 pcs</td> </tr> </table> </div>	(01)	1.000 kg	20 pcs	(02)	1.000 kg	20 pcs	(03)	1.000 kg	20 pcs				(03)	3.000 kg	60 pcs
(01)	1.000 kg	20 pcs															
(02)	1.000 kg	20 pcs															
(03)	1.000 kg	20 pcs															
(03)	3.000 kg	60 pcs															
<b>U-KEY</b>	<b>prt-01</b>	1.00 100 10															
	<b>prt-02</b>	1.00kg 100.00g/pcs 10pcs															

**NOTE:**

The printing sample could be of different kinds of formats. When there is specific demand about the format, conduct as follows

- 1) As for BRICH/GODEX/ZEBRA/GP printers, the factory designs the format as planned and email to the user. Add the format into the previous format file via computer. Then it is successful to add the new format and able to print the new format.
- 2) As for DMP and CK printers, it needs to change the scale design.